

LOW-TEMPERATURE, REFRIGERATING STOREHOUSE

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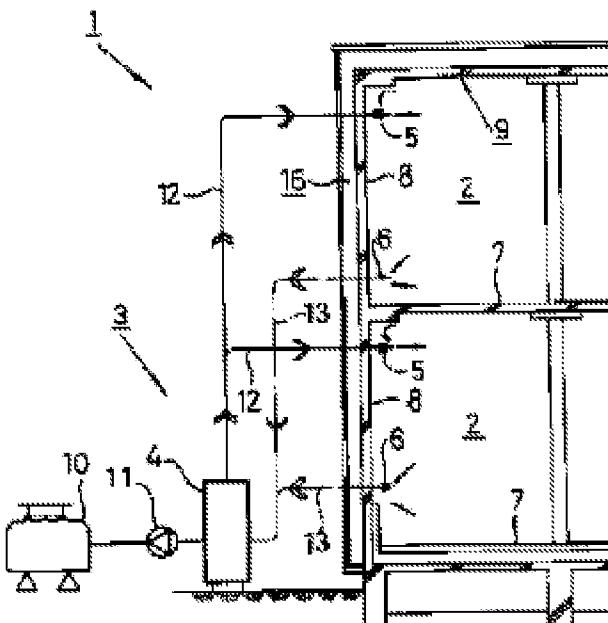
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Abstract of JP8061821

PURPOSE: To provide a low-temperature, refrigerating storehouse which is excellent in the efficiency of refrigeration storage, whose running cost is inexpensive, and which needs no cooling apparatus to be set in the storehouse and is completely harmless and rational.

CONSTITUTION: The cooling in refrigerating spaces 2 of a low-temperature, refrigerating storehouse 1 is carried out by allowing low-temperature air generated by expanding compressed air to circulate through the paths between each refrigerating space 2 and a main engine unit 4 which is a low-temperature air generating unit. That is, low-temperature air dehumidified sufficiently by the main engine unit 4 is directly blown into the refrigerating spaces 2 while air in the refrigerating spaces 2 is directly returned to the main engine unit 4 in which the returned air is again dehumidified, expanded and cooled to be blown into the refrigerating spaces 2, thus carrying out circulation. Further, temperatures in the refrigerating spaces 2 are adjusted by mixing the low-temperature air with the air in the storehouse with the aid of mixing ejection nozzles 5 and ejecting the mixed air therefrom. By the method of blowing the low-temperature air directly into the refrigerating spaces 2, there is no need to provide a cooling apparatus in the storehouse, a space to be required therefor is effectively utilized, and the running cost for such an unnecessary apparatus can be reduced. Furthermore, by using a completely harmless air refrigerant, safety and a compression degree are improved, and management can be made easier.



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